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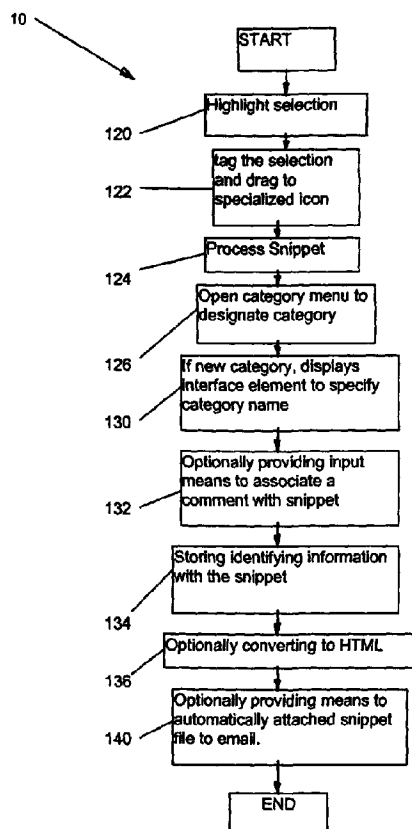
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[Continued on next page]

(54) Title: WEB SNIPPETS CAPTURE, STORAGE AND RETRIEVAL SYSTEM AND METHOD



(57) Abstract: An information selection, capture and storage system and method is provided enabling one or more users to (i) collect pertinent information (snippets (40, 50, 52)) from web pages and other documents quickly in a textual and/or graphic representation, (ii) organize (120) and annotate the information (40, 50, 52, 132) in representative categories and subsets for future access by multiple users, and (iii) retain a date/time record (50) and means to access original web pages from which the information was originally obtained.



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WEB SNIPPETS CAPTURE, STORAGE AND RETRIEVAL SYSTEM AND METHOD

Background of the Invention

The invention relates to information gathering systems and methods, in particular to systems and methods for storing information found on Internet web pages.

When searching for information on the net, a researcher often finds a number of pages with relevant information. However these pages are of various relevancy to the search and often only of partial interest to the searcher.

When relevant information is found, the source or the download link or URL of this information is noted for reference and later retrieval. Current methods for noting the source include manually or using a browsers bookmark system, saving each page to a local storage medium, or copying information to other document editors.

While each has its advantages, each also has disadvantages. These methods can be time consuming, untidy, lacking a way to keep records about the content, distracting from the main purpose of the information retrieval and inadequate for sharing with more than one person.

Furthermore, where people are involved in a group project, the above approaches do not lend themselves to automatically generating a common shared resource.

Summary of the Invention

An information selection, capture and storage system and method ("Snippet" system and method) is provided enabling one or more users to (i) collect pertinent information (herein referred to as "snippets") from web pages and other documents quickly in a textual and/or graphic representation, (ii) organize and annotate the information in representative categories and subsets for future access by multiple users, and (iii) retain a date/time record and means to access original web pages from which the information was originally obtained. An indicator of the approximate percentage of original source documents is also provided, as well as a means to re-organize information between subsets.

While the Snippet system retains the advantages of these existing systems, it does so without their disadvantages.

In addition, multiple users on a computer network can concurrently connect to the same snippets resources, review the current content and add to or re-organize the snippets categories and data.

Brief Description of the Drawings

FIGs. 1 to 8 are screen prints of the various interface items of the system and method of the invention.

FIG. 9 is a flowchart of the method of the invention.

FIGs. 10 to 18 are screen prints showing the operational steps of the method of the invention.

FIG. 19 is a screen print showing the edit category feature of the invention.

Detailed Description of the Preferred Embodiment(s):

Referring now to FIG. 1, the graphical user interface 12 of the system and method is shown. The GUI 12 is made up of two frames 14 and 16. The frame 14 is the category frame, located under an indication of the project 20, in this case, "space station project". The category frame 14 displays, in list form, hypertext links 22 to all different snippets categories 24 under the current project 20. The second frame 16 is the display frame in which help instructions 26 are initially provided as a default when a hypertext category link 24 has not been selected by the user.

When referred to herein, "snippets" means an information selection including either graphics, text, or both, and whether or not including identifying characteristics or user annotations that may optionally annotate the snippets.

Referring now to FIG. 2, when a hypertext category link 24 is clicked, the snippets 30 associated with that category are displayed in the display field 16. Typically, the term "clicking" means placing a user interface cursor over a visual element the pressing one of the action buttons/keys on the input device controlling the cursor. The display field 16 displays a listing of snippets 30. Each snippet 30 includes a control and validation field 32, a comment field 34 and a snippet field 36. This control and validation field 32 includes manipulation icons 40 (i.e., images, typically with a transparent component) comprised of a move icon 42, a delete icon 44 and a comment icon 46. A date stamp field 50 follows these icons 40. A hypertext link 52 incorporating the URL of the source of the snippets 30 is adjacent the date stamp 50. Further information, including the user who added the snippet and the date last modified and how much of

the original source has been copied are provided as well. Below this control and validation field 32 is the comment field 34. Below this comment field 34 is the snippet field 36 itself. Below this first snippet 30 are subsequent snippets, chronologically organized according to the date on which they were created.

Referring now to FIG. 3, the comment icon 46 has the form of a notepad. When the comment icon 46 is clicked, a comment input field 54 opens, permitting the user to edit the title 56 of the snippet 30 and/or the description 60. This is to allow the user to add information about the snippet that may not be self-evident and to alter the title as not all titles are descriptive of the pages content (though this is largely due to the actions of the pages author or the source of the snippet). Where the snippet content is to be preserved as a legal representation of the source content at the time of capture, the content can optionally be protected against changes by the user. Confirmation of the edited changes can be made by pressing an OK icon 62.

Referring now to FIG. 4, the delete icon 44 has the form of a trashbin. When the delete icon 44 is clicked, a delete confirmation window 64 opens, demanding confirmation of the deletion.

Referring now to FIG. 5, when the move icon 42 is clicked, the copy or move snippet popup window 66 opens. This copy or move window 66 includes a project field 70, a category field 72, copy and move radio buttons 74 and 76, respectively, and a confirmation button 80. Selection of the copy radio button 74 and of another project or category using the scroll features 82 and 84 on this popup window 66 allows the user to copy or move a snippet to any other project under any other category. Upon success, if it was a move operation, the original snippet is deleted from the source category.

Referring now to FIG. 6, the selection of another project 86 to which to move or copy the snippet 30 is shown. If the same category and project 20 is chosen, a warning popup (not shown) warns the user to "select a different category or type a new category name".

Referring now to FIG. 7, the GUI 12 has an upper menu bar 90 including a view selection 92. If the user clicks on this selection 92, a pull down menu 94 is displayed from which default settings for the system and method can be changed. In this figure, "Snippets options" 96 has been highlighted and selected for this purpose.

Referring now to FIG. 8, clicking on the snippets option menu item 96 causes the method to display a snippets options popup 100. Basic use instructions 102, a copyright warning level input 104, two tick boxes 106 and 110 to enable prompting for

annotation when adding snippets and deactivating image links when adding snippets, and a confirmation button 112 are provided. The copyright warning level input 104 is set at 10% as a default, to indicate a "safe" level of copying based upon the general principal that to support a claim of copyright infringement, there must be substantial copying—insubstantial copying, arguably of 10% or less of the original work, is generally not actionable. If the user resets the warning level to 100%, then it is turned off and no copyright warning 114 (shown in FIG. 13) is displayed. In order to calculate the amount of selection copied for comparison to the copyright warning level, the current amount of the content that is has been highlighted is quantified in comparison to that of the entire page to determine what percentage of the original work is being copied. If this amount is equal to or less than the copyright warning level, no copyright warning 114 (shown in FIG. 13) is shown. If the deactivate image links tick box 110 is unticked, any images in the highlighted, saved selection 116 (shown in FIG. 11) will be downloaded when the snippet 30 is viewed.

In an embodiment of the invention, multiple users on a computer network may concurrently connect to the same snippets resources, review the current content and add to or re-organize the snippets categories and data.

Basic Implementation Steps of the Method:

The method of the invention may be set up to use a local or remote directory and may be used by multiple people at the same time. Users begin their information search in whatever manner they choose. Any visited page may contain information of varying relevance to their search.

Referring now to FIG. 9, the method 10 of the invention may be summarized by the following steps. In a first step 120, a selection protocol using standard text and/or graphics selection utilities of a mouse and cursor highlight selection routine enables the user to select a snippet selection. In a second step 122, when a selection is made, the method tags the selection as a snippet and enables the user to drag the snippet to a specialized icon. In a third step 124, when the dragged selection is dragged to the specialized icon, the method 10 recognizes the snippet and processes the snippet as discussed in detail below. In a fourth step 126, the method opens up a category menu allowing the user to select an existing category for the snippet or to create a new category. In a fifth step 130, if the user selects to create a new category, the method displays a user interface element (not shown) to allow the user to enter a name for the

new category and verifying that the name is unique before creating the category. In a sixth step 132, after the user selects a category or creates a category for this snippet, the method optionally presents a comment input window into which the user may make comments specifically associated with the snippet. In a seventh step 134, after providing the means to receive and store a comment to be associated with the snippet, the method stores the comment and other routine identifying information such as date of creation, author, etc, in association with the snippet. In an eighth step 136, the method optionally stores the snippet in html format, thus being readable by any browser. In a ninth step 140, the method optionally provides email capabilities whereby the snippet is automatically attached to an email.

Note that the term "dragging" used above describes an action involving the selection of content and the movement of this content by use of an input device (e.g. a mouse) by controlling the operating systems cursor as used by a computer.

Referring now to FIG. 10, a typical website 220 is shown, including images 222 and text 224.

Referring now to FIG. 11, an image 222 and text 224 is highlighted to define a snippet selection 116 using a mouse or click-shift-reposition methods standard in the art. The user then drags this highlighted selection 116 to a snippets receptor icon 226 in the upper right portion of the GUI 12, and drops it into this icon.

Referring now to FIG. 12, when the highlighted selection 116 is dropped into the icon 226, a drop down listing 230 of all existing categories 232 is presented to the user, along with a "New category" option 234 permitting the user to create a new category, and an "other projects" option 236 which permits the user to select a new project in which to store the snippet 30.

Referring now to FIG. 13, when "New category" menu item 234 is selected, a select category popup 240 is shown, having a Project field 242 and a Category field 244 through which the snippet selection 116 can be saved to a new category in the same project or another project and in another existing or new category, selected in a similar manner. If the amount copied exceeds the copyright warning level, then, as shown in FIG. 14, the copyright warning message 114 is displayed. If the user clicks "OK", the method advances.

Referring now to FIG. 15, a snippet description input window 246 is displayed (provided that if the user received a copyright warning, he overrode it) shown having a title field 250 and an annotation field 252. If the web page 220 from which the snippet

selection 116 was taken had a bookmark title 254 or comment 256 associated with it, the method copies the bookmark title and comment into the title field 250 and annotation field 252 as a default. Referring now to FIG. 16, the user may nevertheless edit or delete this bookmark title 254 or comment 256.

Referring now to FIG. 17, the resulting snippet 30 is shown, in off-line mode, in which the graphic 222 cannot be downloaded. However, once the user is online, he is able to access any graphics 222 stored in the snippet 30, provided they are still accessible on the Internet.

Referring now to FIG. 18, the user may optionally click the "email to a colleague" hyperlink icon 260 at the top, center of the snippet display frame 16. If he does, an email window 262 opens, automatically attaching the contents of the snippets frame 16.

The contents of the snippets frame 16 is in html format and therefore, after receipt by the recipient, it may be opened and viewed using a conventional web browser. When used together with project-based browsing software as described in PCT/US0017409, "Browsing Method for Focusing Research", the content being incorporated herein by reference, the method allows multiple users to access the same set of snippet files for collaboration or data dissemination purposes. The system optionally provides a means of specifying the location of these snippet files, such as by specifying a Snippets folder on the Snippet Options dialog (Specify Snippets Folder [edit field] [Browse Btn]). Thus users can create and share multiple snippets folders. Alternatively, sharing of Snippets may be limited to such times as when a given project is open, by simply giving the user with whom the snippet is to be shared the URL in the Snippets browser tab (e.g. C:\Windows\Temp\Snippets\snippets.htm)

Now referring to FIG. 19, a category manager interface 280 provides the user a means to add, rename and delete categories. The interface 280 is opened by pressing a categories button 282 on a project properties window 284. The project properties window 284 is opened by clicking a project properties icon 286 under the Research summary library 290. Note that an add button 292, a update button 294 and a delete button 296 are provided to manage categories listed in a category listing 300. A category naming field 302 is provided to add new or modify highlighted category names in the category listing. 300.

The presentation of the comment window described above may be turned on or off according to the snippets option popup 100 selections.

The method processes the content dragged to it as outlined below, including that originating from external sources such as emails and documents:

- (i) All relative URLs are converted to absolute URLs by combining them with a base URL. This base URL may be found in a BASE tag, if no BASE tag then the URL or source of the original document is used.
- (ii) Embedded content such as images (and/or associated URLs) may optionally be stripped from the content. Exclusion of such content reduces storage requirements and/or download times. Where content URLs are included, they are converted to absolute source URLs.
- (iii) The percentage of copied text is calculated. This is based on standard text excluding markup tags and other HTML content, and provides a mechanism to determine the extent of copying to provide feedback to the user regarding possible copyright law infringement.
- (iv) The selected text may contain starting tags but may not include associated ending tags. While this does not directly affect the display of the HTML by itself, it may cause problems with the snippet system or the viewing system. Therefore, ending tags are added to the end of each snippet to encapsulate them independently when combined under the user specified category.

In an optional additional processing step, if the snippets percentage being copied exceeds a user definable value the user is asked to confirm the addition of the snippet.

In another optional processing step, the destination snippet category storage size is checked against a user definable maximum size value. If exceeded, the user is advised and prompted to confirm the addition. This provides the user a measure of control over subsequent file storage requirements and access times.

Optionally, if source of the snippet is detected to be not from the host browser, then a user interface allows the user to edit the snippets title and add an annotation.

The snippet is added to the end of the selected category, enclosed within its identifying tags - thus separating it from the formatting characteristics of previous snippets. The following details are also added: (1) Date and time the snippet was

added; (2) Percentage copied from original document if known; and (3) the original documents URL and title if available. For text from the host browser the name source and title will be available, but for external applications this may not be, depending on the operating system and the source application.

The contents of the snippet system may be viewed at any time within a "browser window" of the host browser. This comprises a category area and the main viewing area. The category area displays a list of categories from which the user may choose a category to view and a means of accessing the category manager user interface. The main viewing area is where the contents of the selected category are displayed.

If a snippet selection 116 is taken from a program other than a browser, the user is provided an input window (not shown but identical in appearance to input window 246) to enter a title and annotations.

The user may continue with their information search. They may also highlight and pass selections 116 to a Snippets menu item as an alternative to the drag and drop facility above.

At any time, a user may click on the Snippet icon 226 to view the repository of snippets 30. The displayed interface lists all categories and allows the user to view any category. The interface also allows the user to manage their categories: adding, deleting or renaming categories; moving, copying or deleting of snippets; and adding comment to snippets.

Since the snippets of information contained in various categories can grow to represent an invaluable resource for others, other network users can be given instant access to snippets resources by providing a URL. This enables them to traverse the snippets repository using a standard browser (i.e. without requiring specialized software). Users can also choose to email their snippets resources to others using standard email facilities. Optionally, search facilities can be used to locate snippets resources containing sought key words in any field, whether the title field 250, the annotation field 254 or the snippet selection 116.

Snippet Storage

The Snippet categories and additional pages used for display of the Snippet system are stored as HTML files. These files follow the HTML standard except for certain custom HTML tags. The custom tags are used for providing control elements for editing options (e.g. edit categories, edit/move/annotate snippet etc.). The fact that

standard HTML browsers ignore unrecognized tags means these control elements remain invisible and therefore do not interfere with other users accessing the information via standard browsers.

Internal HTML Extraction

When the selected HTML is added to the snippets, the method of extraction is browser specific. When processing the HTML, embedded content, such as images, can be optionally retained or removed as required by the user. Also URL anchors and relative URLs are resolved to absolute URLs, to enable snippets to provide URL access to that content linked to in the original document.

Since portions of original source HTML to be included in a Snippets category may not include matching opening and closing tags, processing is included in which opening tags are added where an unmatched closing tag is found and vice versa, to ensure each snippet preserves its original display attributes where possible. To terminate the HTML, it is checked for tables and other relevant tags that have not been terminated. When these situations are detected, the appropriate matching tags are added. Also ending tags are added to terminate formatting that is not automatically terminated by the ending of table cells.

External Snippets

In addition to Internet and intranet information sources, the system also supports including snippet selections 116 from other textual and HTML based documents. Where required, these are processed to protect the format of the snippet category pages. In cases where the snippet source content is transferred from another browser, wherever possible the raw HTML is copied, otherwise the plain text is copied.

Calculation of Original document percentage

This percent value is calculated on the unmarked up text, not the raw HTML. The percent copied value is presented to the user to allow an assessment regarding copyright considerations for personal use as described above.

Multi-user Support

The Snippets system uses a number of files generated by the software to display the contents. The system allows these files to be located anywhere on a computer

network. Although the system has a default location for these files on the current user's computer, it allows the location to be changed (i) for central storage and access by multiple users in a workgroup environment and (ii) to enable users to create multiple resources of snippets according to their information classification requirements.

This network ability allows multiple users to set the location on multiple computers to the same location so to share the resource. Also because the system is based on standard HTML files, the snippet resources can be viewed by others utilizing standard HTML display features and using standard browsers. However the editing options are not provided when accessed by other browsers not equipped with the snippets processing software.

Typical Example of Use:

The following is an example of general usage of the Snippets system.

John Doe begins a search for information on battles in the American Civil War using a web based search engine. The search engine provides a large number of pages with links to possibly relevant pages. He proceeds to visit each link to determine the relevancy of the pages pointed to by the link.

When he finds the first page containing any information of relevance, he selects the relevant text portion and drags it to the Snippet icon. He elects to create a new category and names it " Civil War".

He proceeds with his search, occasionally dragging text to the Snippet icon and selecting to add it to his "Civil War" category.

Occasionally he comes across information of relevance to other subjects in which he has an interest. When transferring this information to his snippets resources, he can choose to add the new material into categories he has created previously, or create specific new categories or to save the snippet into another project.

He can also choose to share his snippets resources with others - either via an existing computer network connection or by emailing snippet categories in HTML format. He can also assign research tasks to co-workers, whereby they can concurrently add their own material to the snippets resources if using a browser equipped with the snippets system.

At any time later, he and his co-workers can review the contents of the snippets categories. They can choose to reclassify into new categories as required e.g. " Civil

War Battles" and "Civil War Politics" etc., annotate or delete superfluous content, and revisit the original sites to review content changes.

In an advantage of the invention, snippets of information found on the Internet can be saved, categorized and stored according to the desire of the user.

In another advantage, the system eliminates the need to print out interesting web content by providing a reliable electronic storage locale.

In another advantage, snippets may be instantly shared with colleagues, clients and co-workers via email or via storage in a project file to which these collaborators have access.

In another advantage, the snippet selection 116 is stored in an unalterable form in order to provide proof of the existence of content on the Internet, important should the user attempt to use the snippet 30 to support a libel or unfair competition claim based on, for example, the tortuous nature of the content published on the web by another.

Multiple variations and modifications are possible in the embodiments of the invention described here. Although certain illustrative embodiments of the invention have been shown and described here, a wide range of modifications, changes, and substitutions is contemplated in the foregoing disclosure. In some instances, some features of the present invention may be employed without a corresponding use of the other features. Accordingly, it is appropriate that the foregoing description be construed broadly and understood as being given by way of illustration and example only, the spirit and scope of the invention being limited only by the appended claims.

What is claimed is:

1. A web snippets capture, storage, and retrieval system managing and displaying snippets, the system including software operating on a computer, the software having snippet selection means which selects the snippet, snippet processing means which processes the snippet so selected, and snippet storage means which stores the processed snippet in memory in a format which can be displayed upon demand by a user.
2. The system of claim 1 wherein snippet organization means saves the snippet in association with a category.
3. The system of claim 2 wherein the organization means saves the category in association with a project or theme.
4. The system of claim 1 wherein a user prompting means prompts the user for a comment and if so provided by the user, the storage means stores the comment in displayable form in association with the snippet.
5. The system of claim 1 wherein identifying means are provided for storing identifying characteristics of the snippet.
6. The system of claim 5, wherein the identifying characteristics of the snippet include one of a characteristic selected from a group of characteristics consisting of date and time of creation, size of snippet in relation to source document, source location of snippet, URL of the snippet and optionally the user who added the snippet.
7. The system of claim 6 wherein display means displays the snippet with at least one identifying characteristic.
8. A web snippets capture, storage, and retrieval software method operable on a computer, the method including the steps of selecting a snippet to be stored,

processing the snippet to be stored, and storing the processed snippet in a format that can be displayed upon demand by a user.

9. The method of claim 8 wherein the snippets are stored in association with a category.
10. The method of claim 1 wherein snippets are saved in association with a project or theme identifier.
11. The method of claim 8 wherein between the capturing and storing steps, the method prompts the user for a comment and if so input, the method stores the comment in displayable form in association with the snippet.
12. The method of claim 8 wherein identifying characteristics of the snippet are stored in association with the snippet.
13. The method of claim 12, wherein the identifying characteristics of the snippet include one of a characteristic selected from a group of characteristics consisting of date and time of creation, size of snippet in relation to source document, source location of snippet, URL of snippet and optionally the name of the user adding the snippet.
14. The method of claim 13 wherein display means displays the snippet with at least one identifying characteristic.
15. A web snippets capture, storage, and retrieval software method operable on a computer, the method including the steps of:
 - a. using a selection protocol enabling a user to select a snippet selection of text and/or graphics;
 - b. when a selection is made, tagging the selection as a snippet and, where the system so permits, enabling the user to drag the selection to a specialized icon, and where the system does not so permit, providing a right-click menu option for the same;

- c. when the dragged selection is dragged to the specialized icon, recognizing the snippet and processing the snippet;
 - d. optionally opening up a category menu allowing the user to select an existing category for the snippet or to create a new category;
 - e. if the user selects to create a new category, displaying a user interface element to allow the user to enter a name for the new category and verifying that the name is unique before creating the category;
 - f. optionally providing means for the user to edit categories;
 - g. optionally presenting a comment input window into which the user may make comments specifically associated with the snippet;
 - h. storing the comment and any other routine identifying information in association with the snippet in an electronically displayable format;
 - i. recalling the stored snippet for display at the will of the user; and
 - j. optionally providing email capabilities whereby the snippet may be automatically attached to the associated email for distribution.
16. The method of claim 15 wherein the processing step (c) includes the substeps of:
- (i) converting all relative URLs to absolute URLs by combining them with a base URL;
 - (ii) optionally stripping embedded content such as images and associated URLs from the content;
 - (iii) where content URLs are included, converting to absolute source URLs;
 - (iv) optionally providing means for determining the extent of copying; and
 - (v) adding ending tags to the end of code from which each snippet is composed to encapsulate each snippet independently when combined under the user specified category.

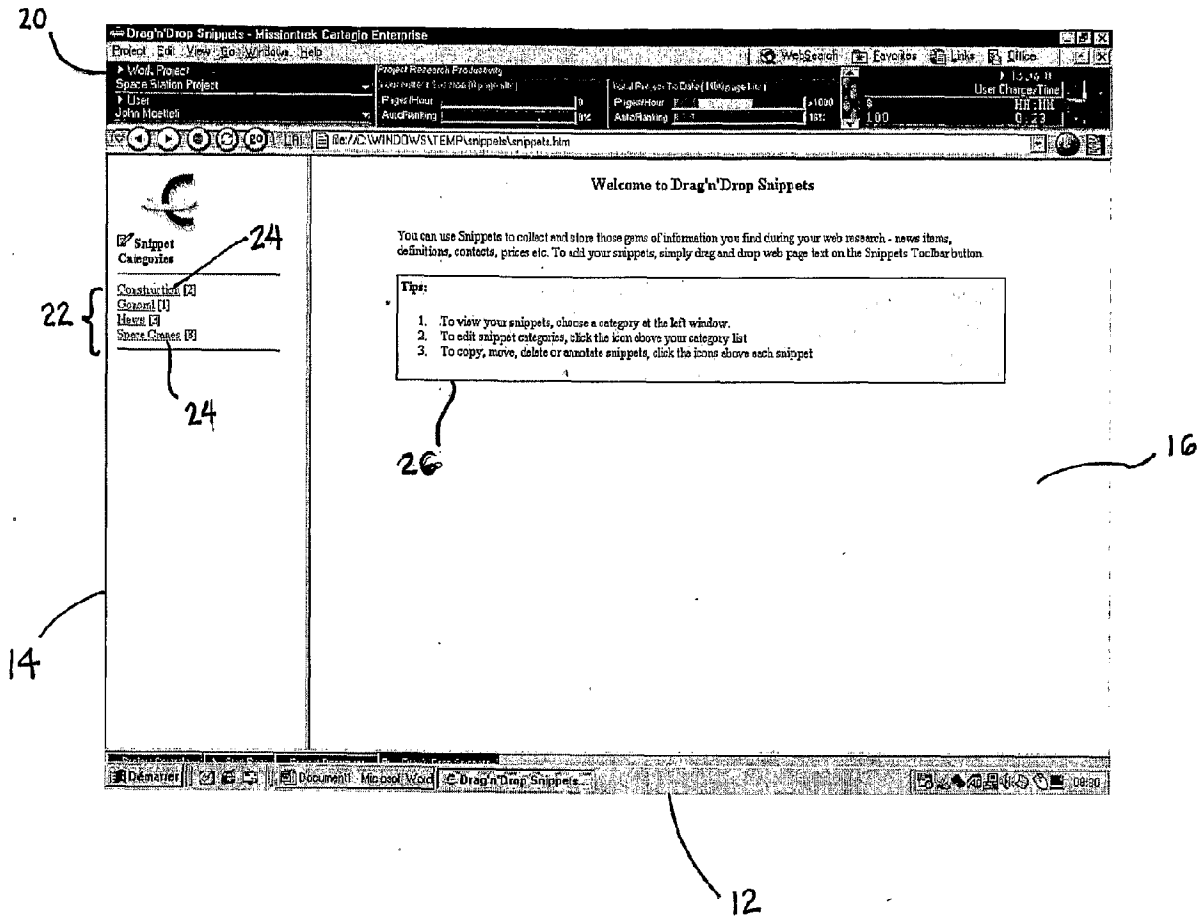


FIG. 1

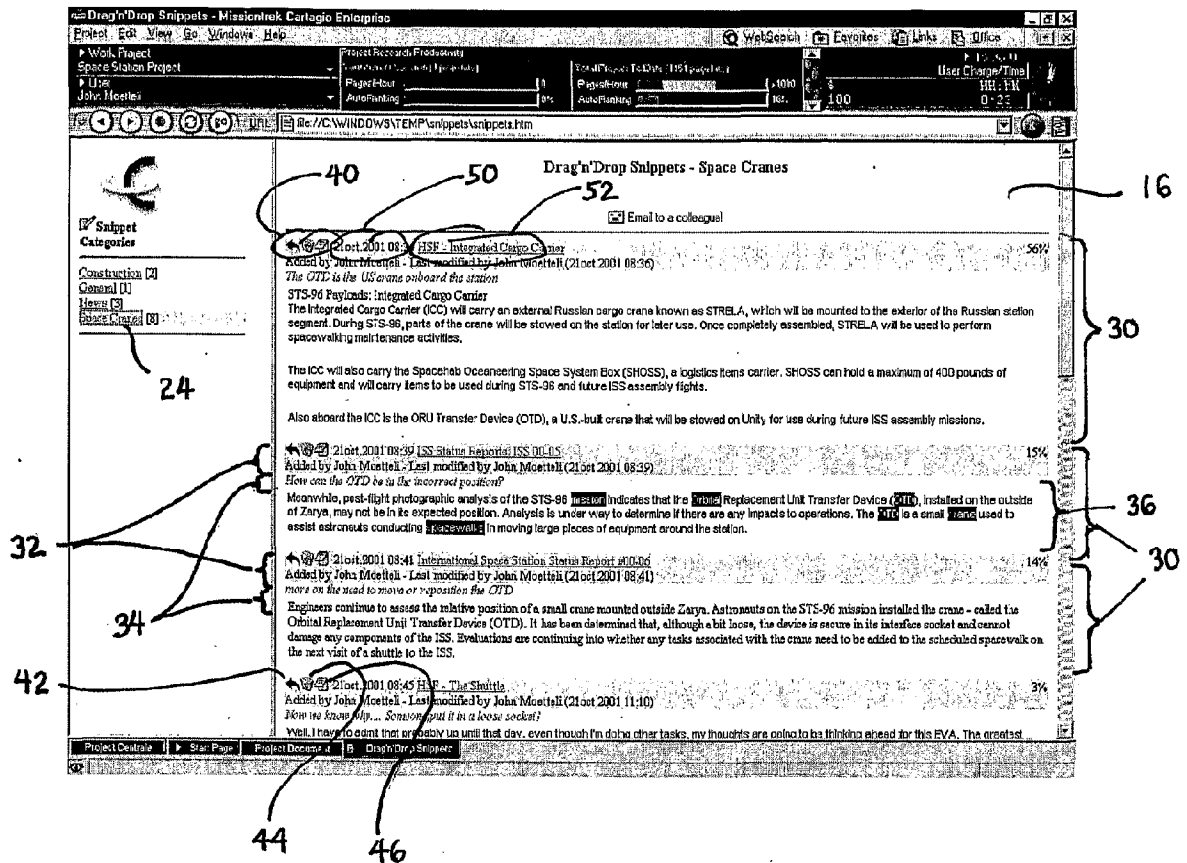


FIG. 2

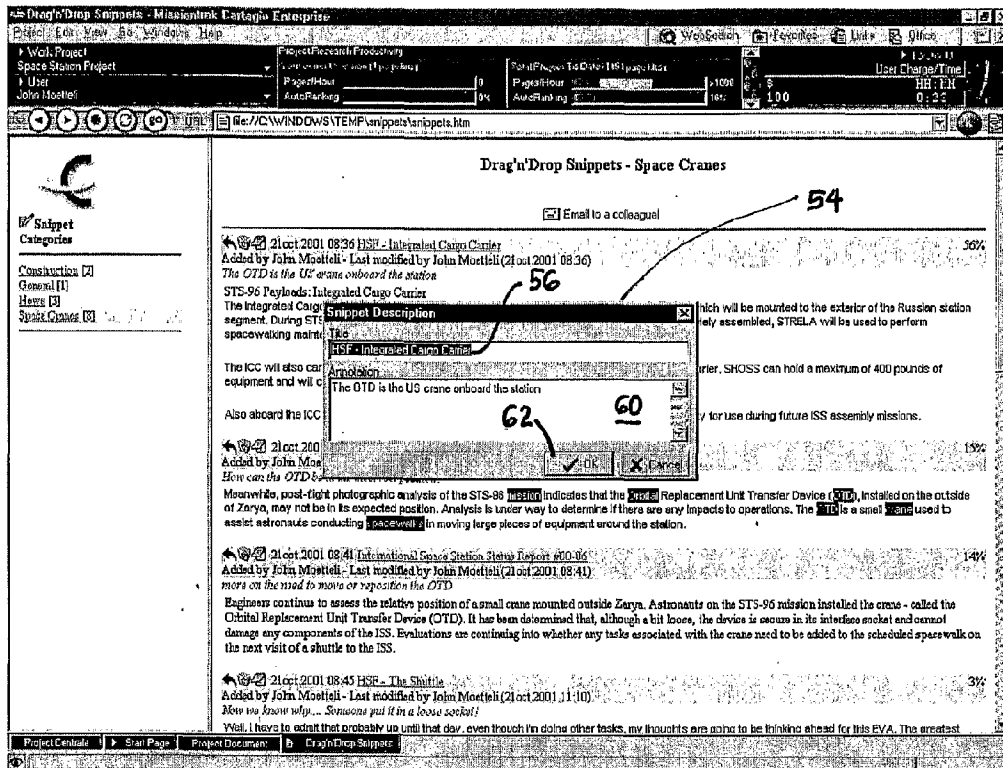


FIG. 3

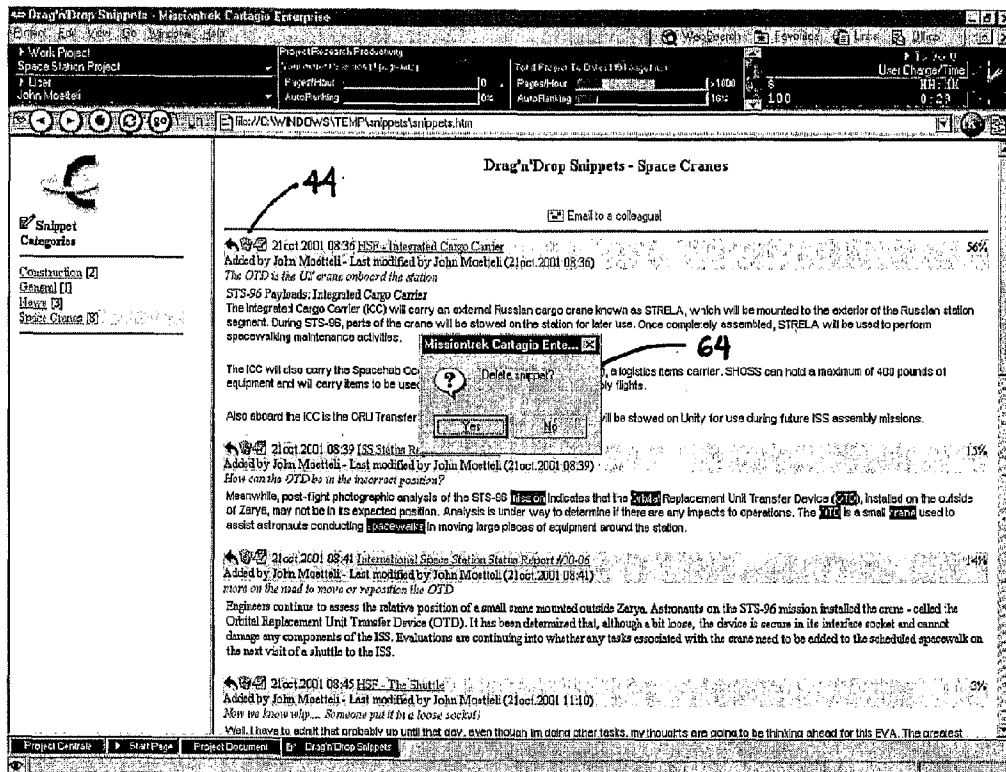


FIG. 4

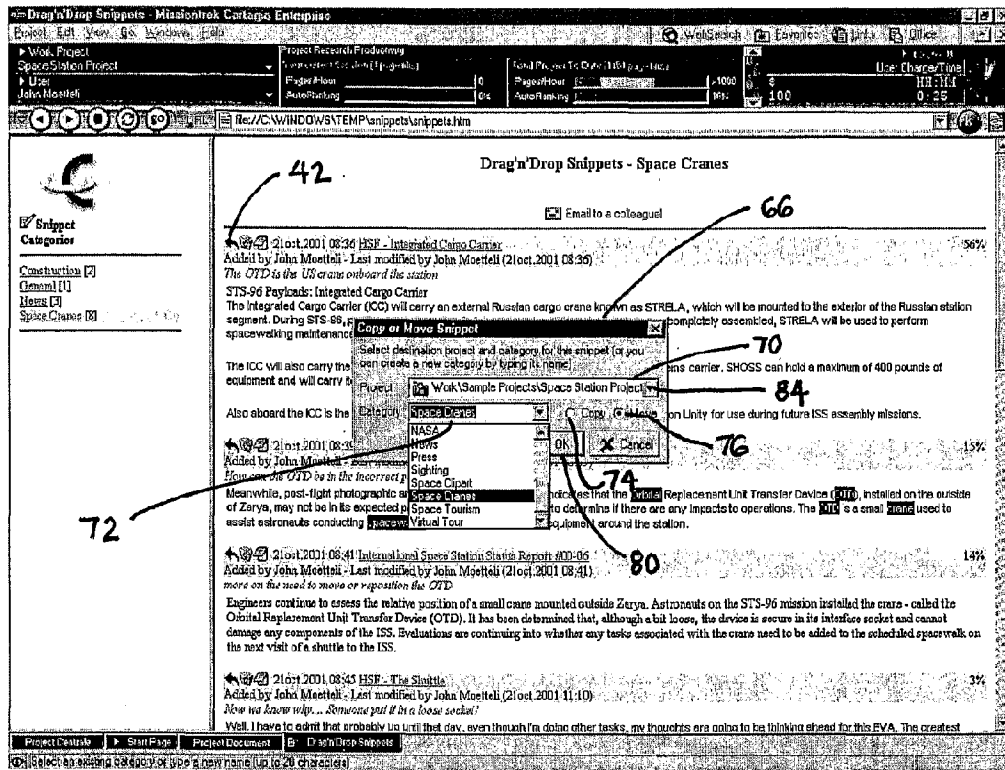


FIG. 5

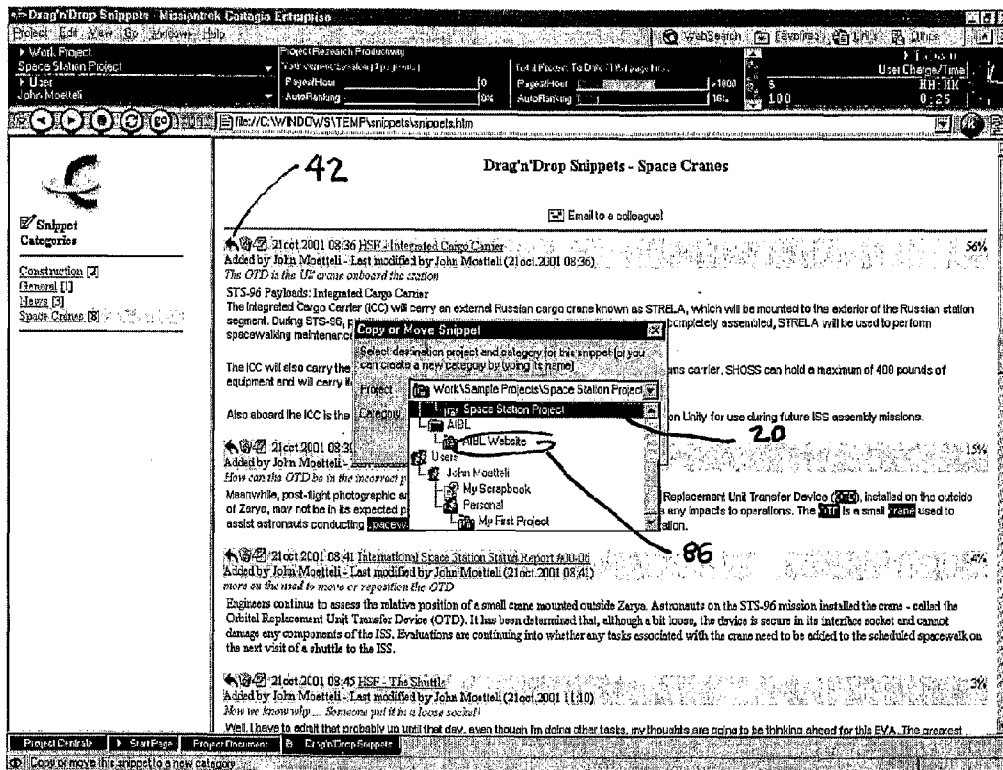


FIG. 6

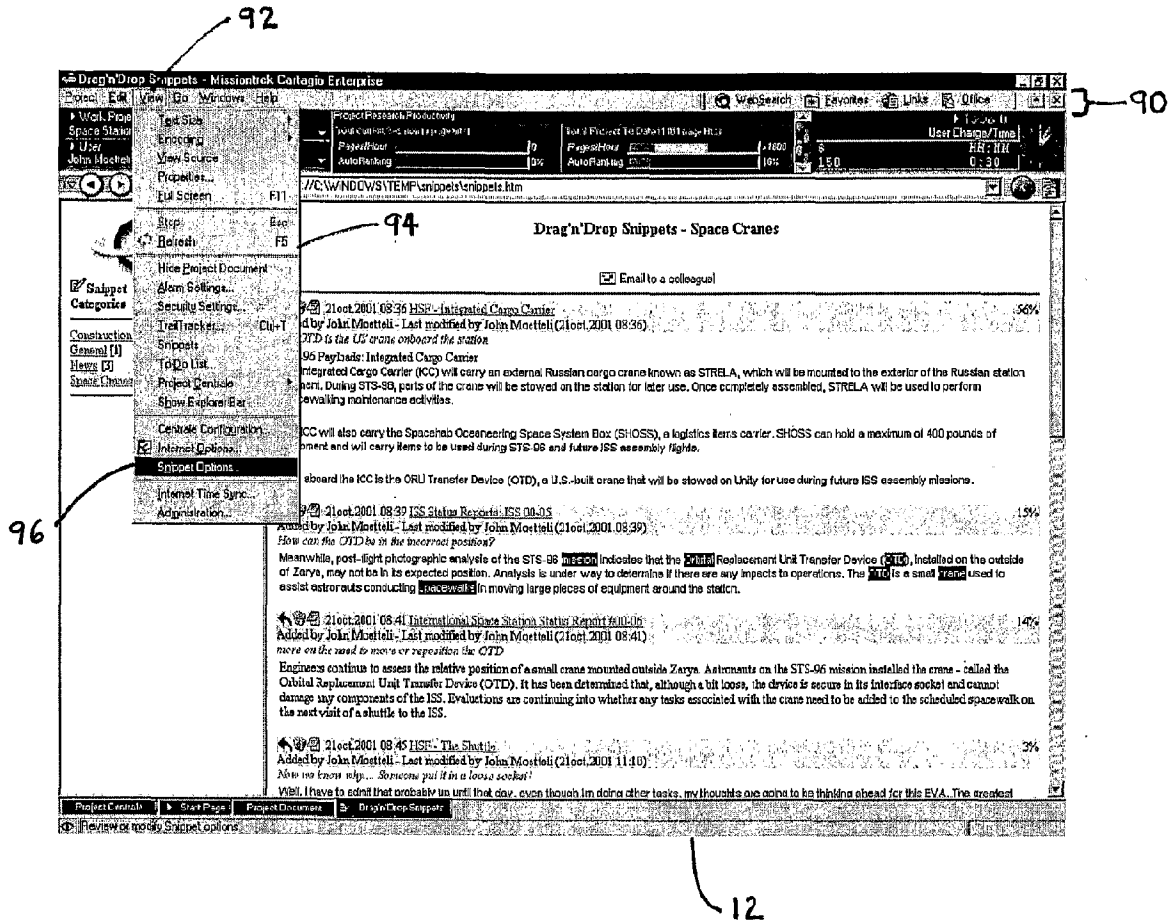


FIG. 7

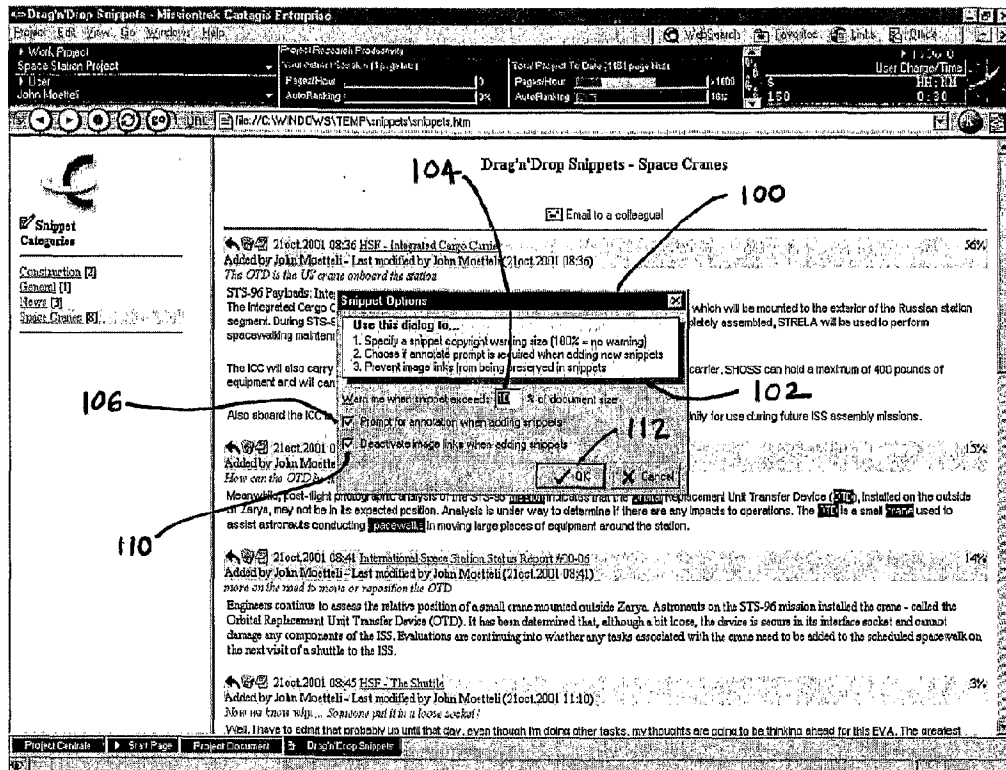


FIG. 8

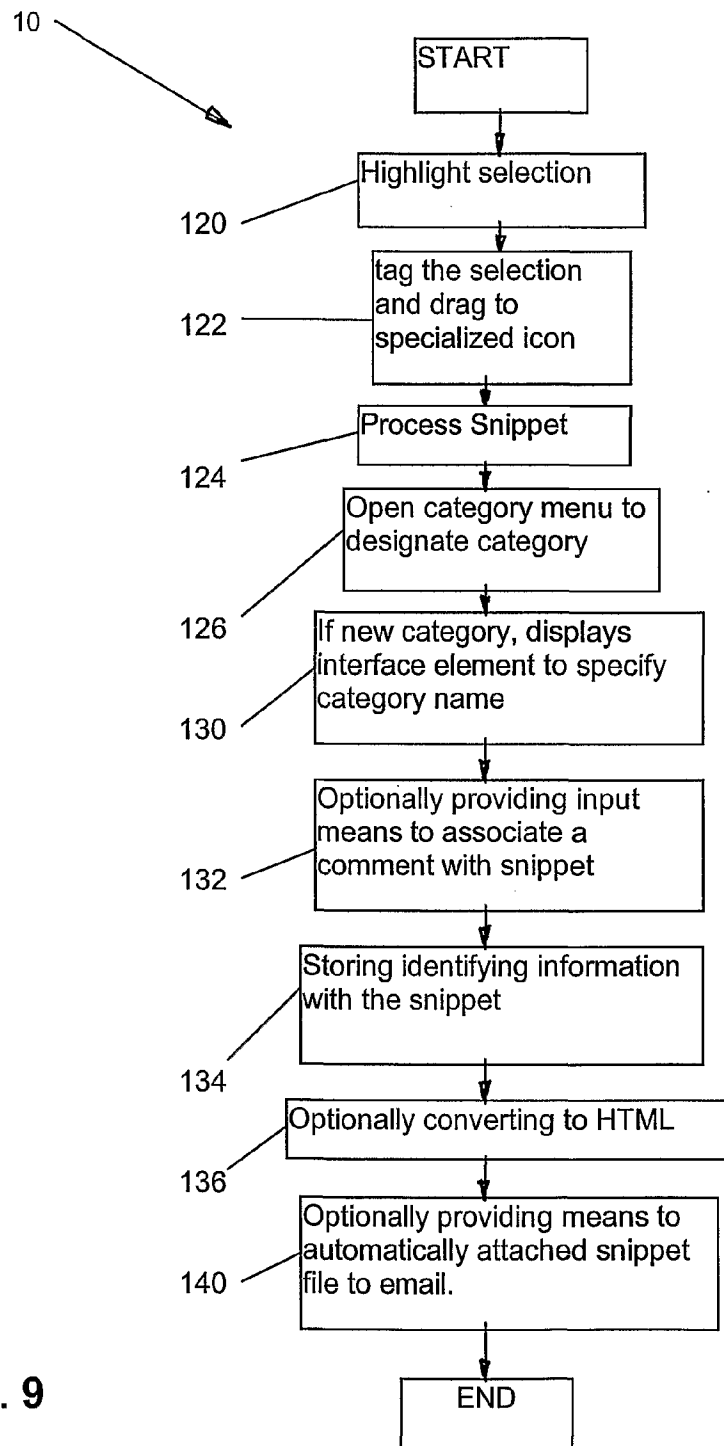


FIG. 9

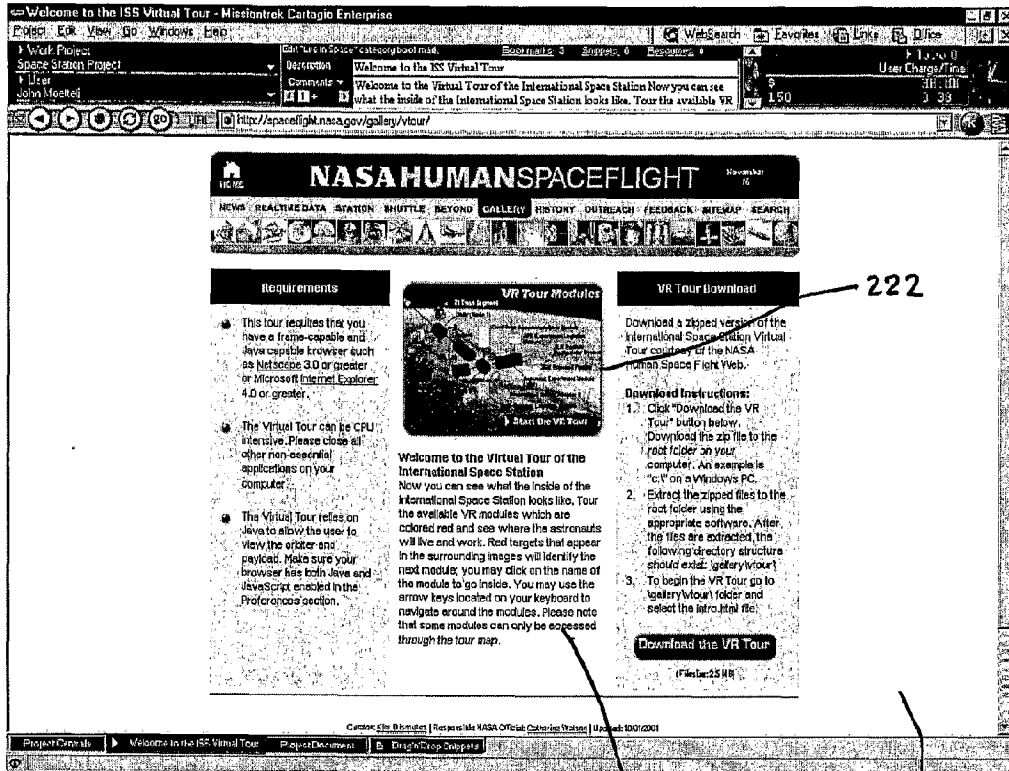


FIG. 10

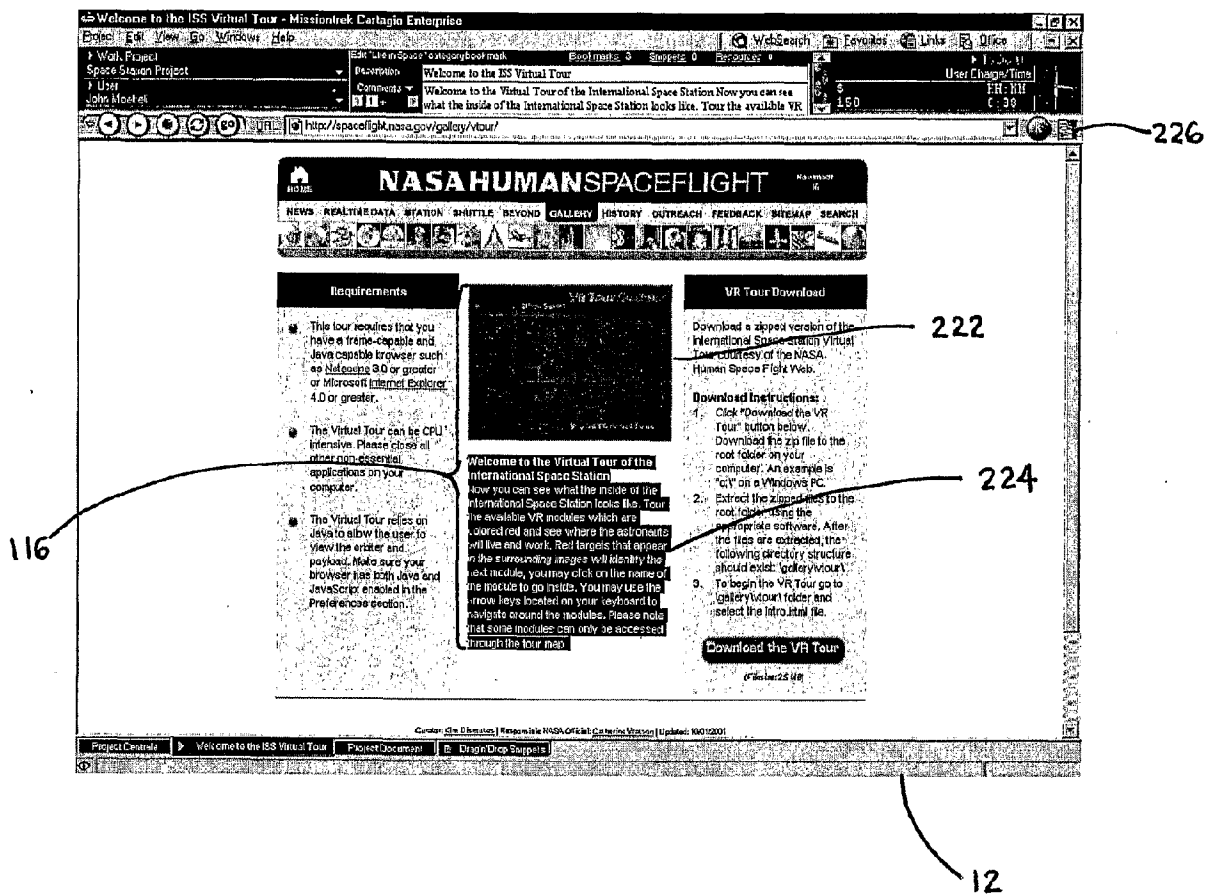


FIG. 11

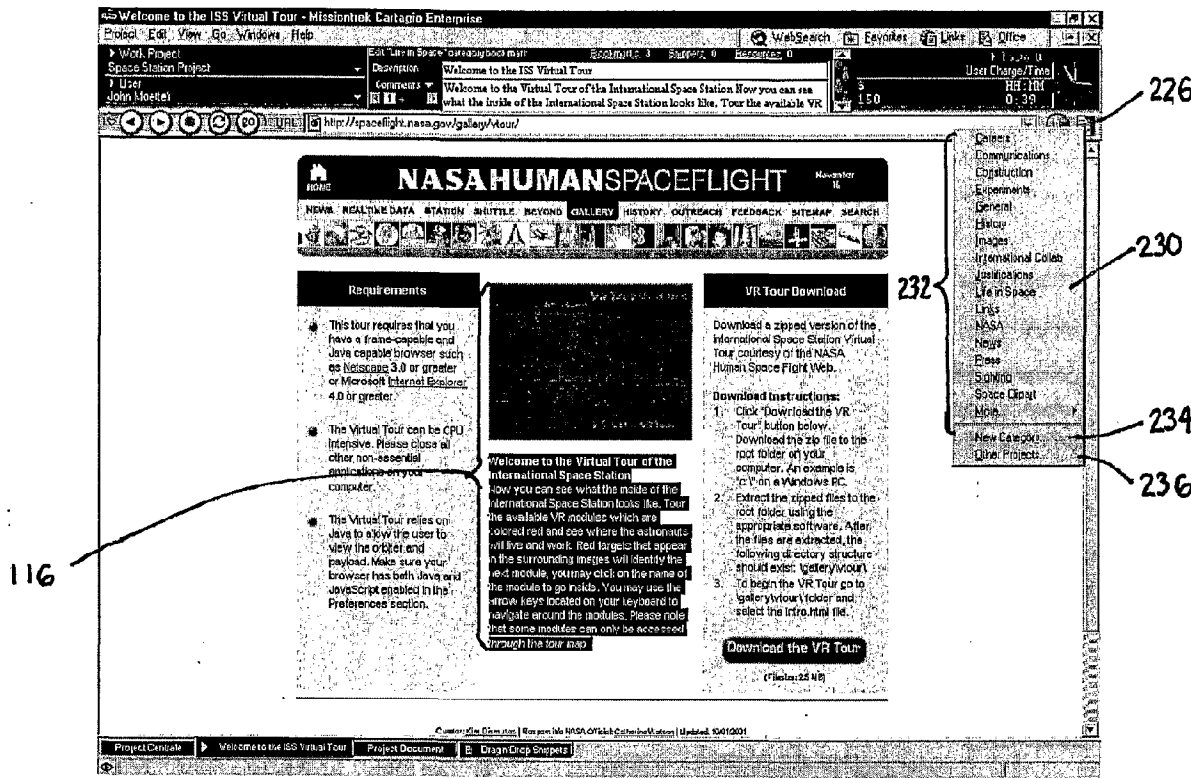


FIG. 12

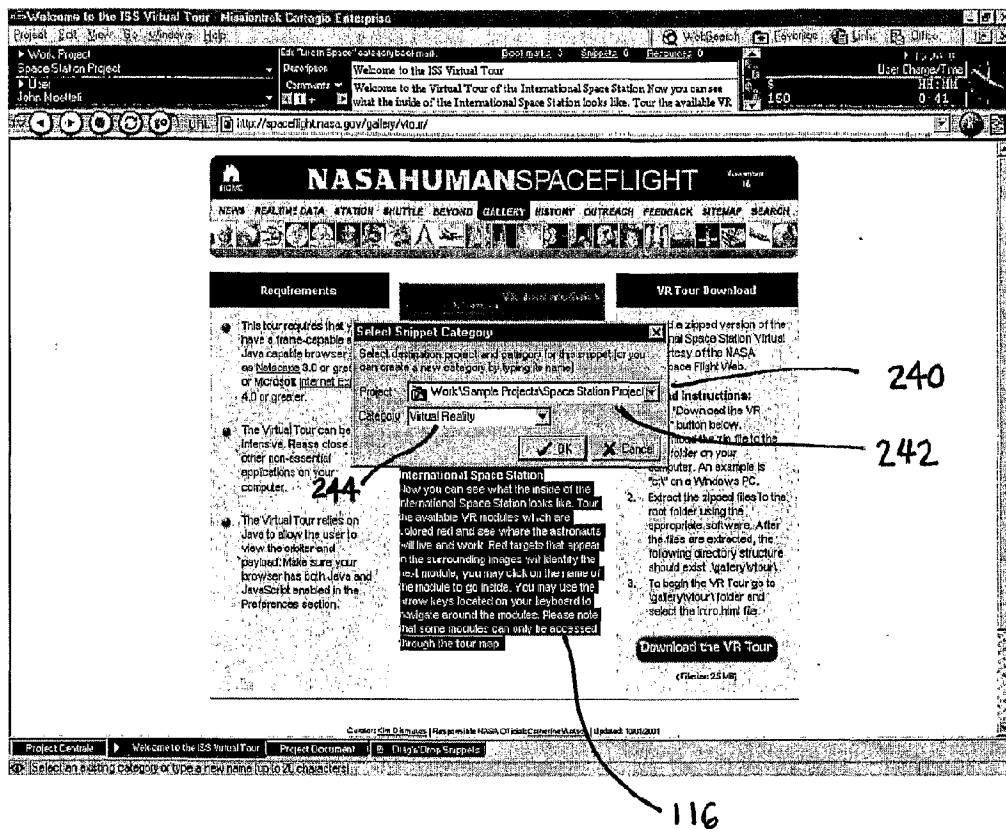


FIG. 13

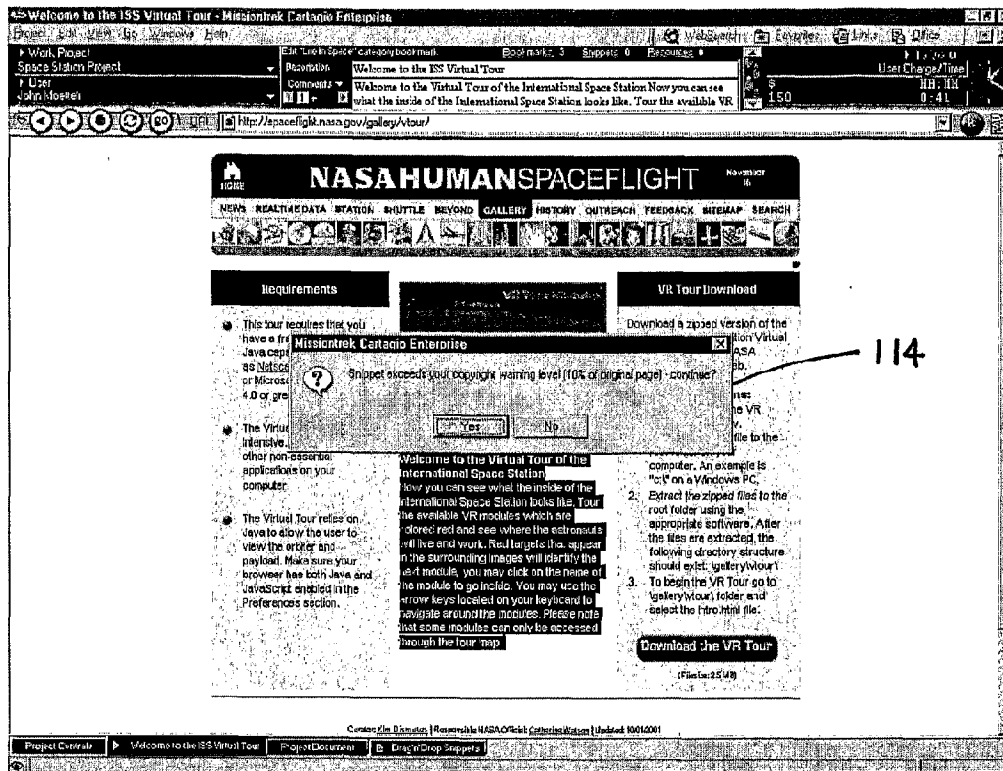


FIG. 14

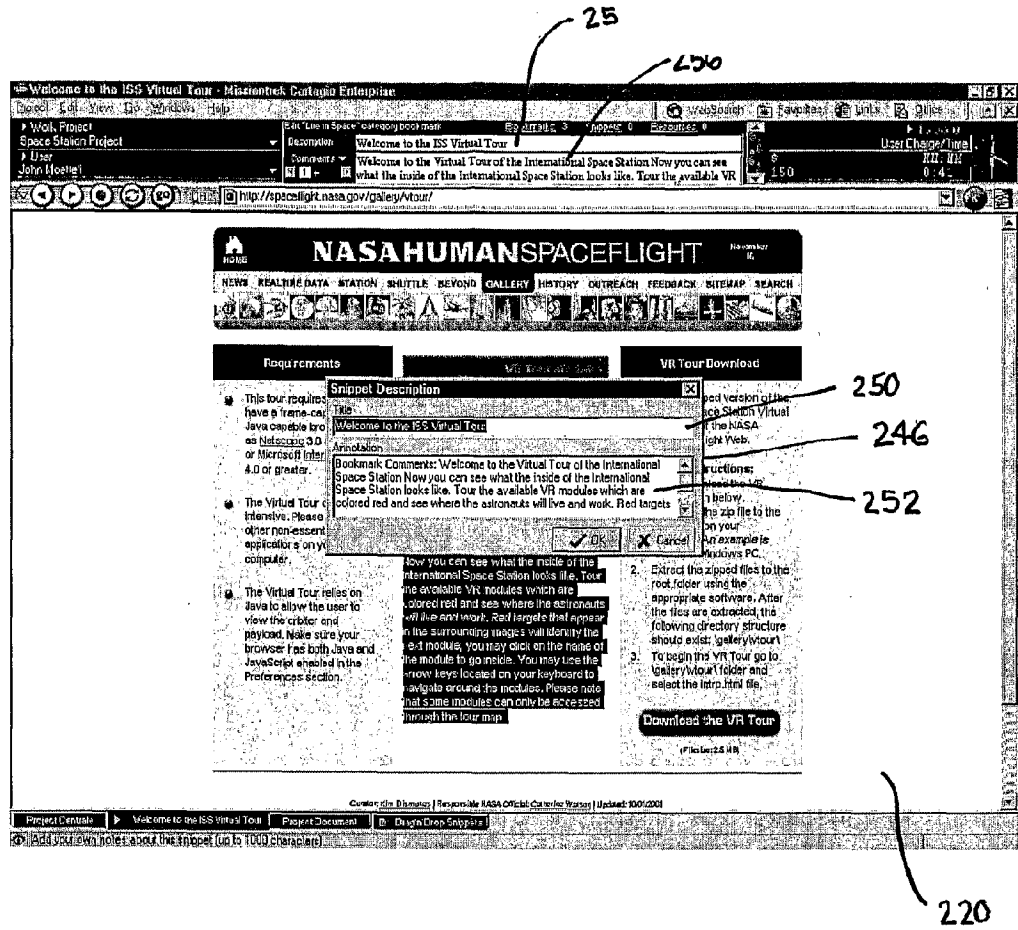


FIG. 15

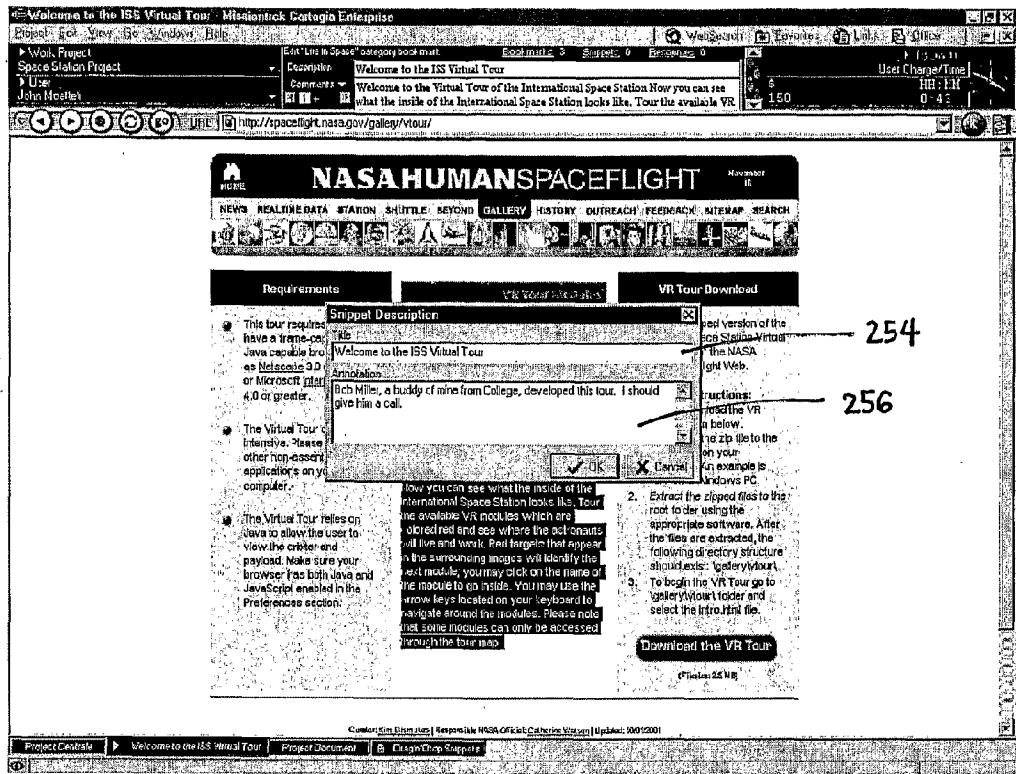


FIG. 16

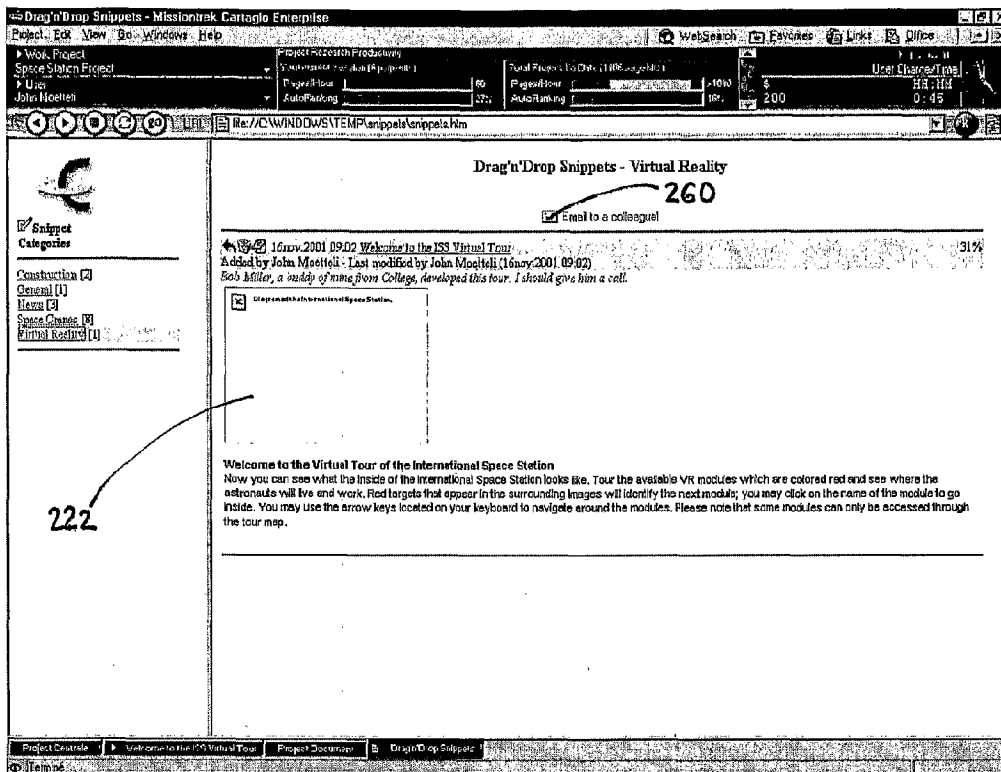


FIG. 17

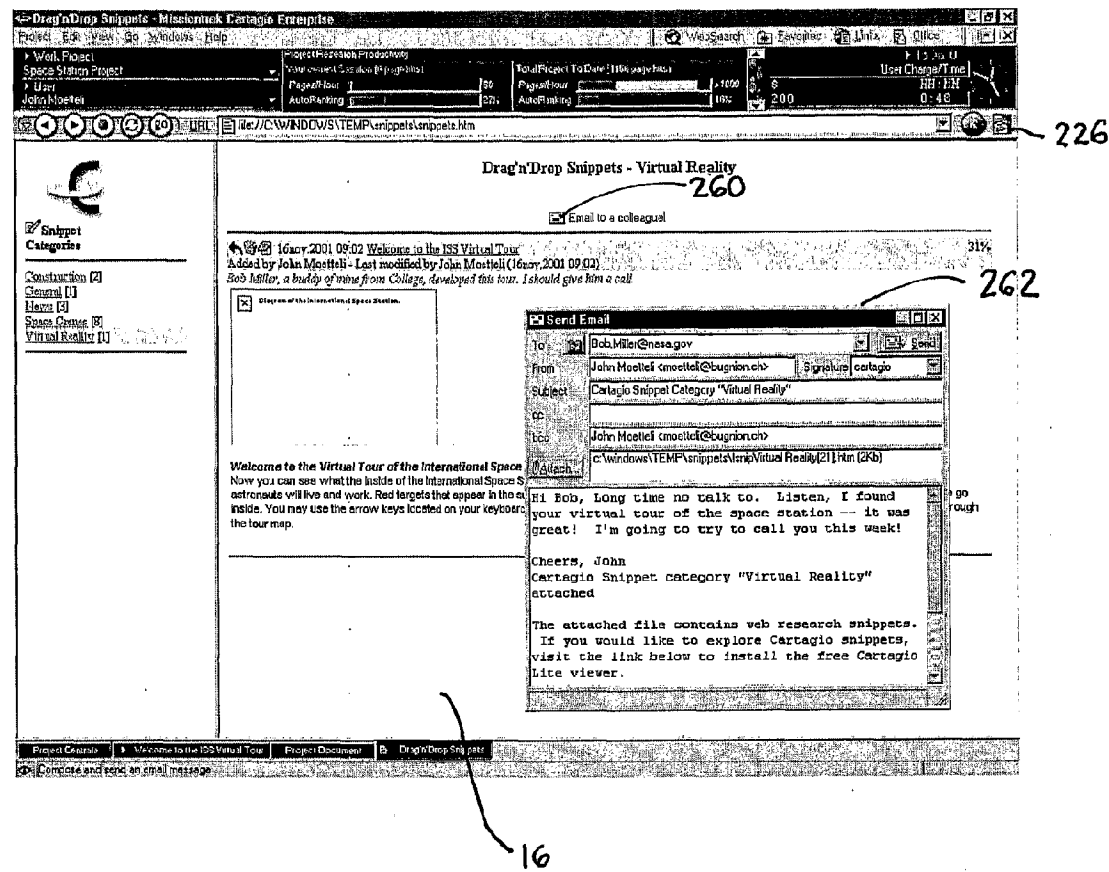


FIG. 18

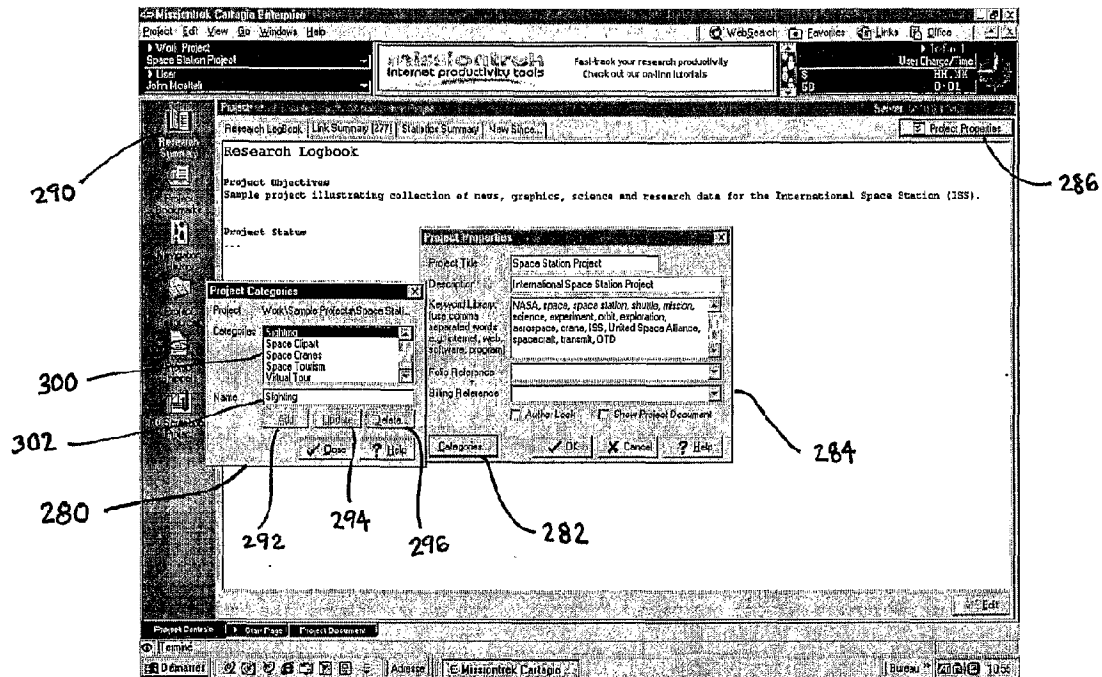


FIG. 19

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/48150

A. CLASSIFICATION OF SUBJECT MATTER																										
IPC(7) : G06F 17/21																										
US CL : 707/501.1, 512, 513; 345/760																										
According to International Patent Classification (IPC) or to both national classification and IPC																										
B. FIELDS SEARCHED																										
Minimum documentation searched (classification system followed by classification symbols) U.S. : 707/501.1, 512, 513; 345/760																										
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched																										
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WEST																										
C. DOCUMENTS CONSIDERED TO BE RELEVANT																										
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.																								
A,P	US 6,317,757 B1 (SAKAMAKI) 13 November 2001 (13.11.2001).	1-16																								
A,P	US 6,266,684 B1 (KRAUS et al) 24 July 2001 (24.07.2001).	1-16																								
A,P	US 6,219,679 B1 (BRISEBOIS et al) 17 April 2001 (17.04.2001).	1-16																								
A,P	US 6,167,409 A (DeROSE et al) 26 December 2000 (26.12.2000).	1-16																								
A	US 6,144,375 A (JAIN et al) 07 November 2000 (07.11.2000).	1-16																								
A	US 6,122,647 A (HOROWITZ et al) 19 September 2000 (19.09.2000).	1-16																								
A	US 6,121,970 A (GUEDALIA) 19 September 2000 (19.09.2000).	1-16																								
A	US 6,076,104 A (McCUE) 13 June 2000 (13.06.2000).	1-16																								
A	US 6,067,565 A (HORVITZ) 23 May 2000 (23.05.2000).	1-16																								
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.																										
<table border="0"> <tr> <td colspan="2">* Special categories of cited documents:</td> <td>"T"</td> <td>later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td> </tr> <tr> <td>"A"</td> <td>document defining the general state of the art which is not considered to be of particular relevance</td> <td>"X"</td> <td>document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td> </tr> <tr> <td>"E"</td> <td>earlier application or patent published on or after the international filing date</td> <td>"Y"</td> <td>document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td> </tr> <tr> <td>"L"</td> <td>document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td> <td>"&"</td> <td>document member of the same patent family</td> </tr> <tr> <td>"O"</td> <td>document referring to an oral disclosure, use, exhibition or other means</td> <td></td> <td></td> </tr> <tr> <td>"P"</td> <td>document published prior to the international filing date but later than the priority date claimed</td> <td></td> <td></td> </tr> </table>			* Special categories of cited documents:		"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	"A"	document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	"E"	earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family	"O"	document referring to an oral disclosure, use, exhibition or other means			"P"	document published prior to the international filing date but later than the priority date claimed		
* Special categories of cited documents:		"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention																							
"A"	document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone																							
"E"	earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art																							
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family																							
"O"	document referring to an oral disclosure, use, exhibition or other means																									
"P"	document published prior to the international filing date but later than the priority date claimed																									
Date of the actual completion of the international search 17 May 2002 (17.05.2002)		Date of mailing of the international search report 10 JUN 2002																								
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703)305-3230		Authorized officer JOSEPH H FEILD <i>Joseph H. Feild</i> Telephone No. (703)305-3900																								

Box No. VIII (ii) DECLARATION: ENTITLEMENT TO APPLY FOR AND BE GRANTED A PATENT

The declaration must conform to the standardized wording provided for in Section 212; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (ii). If this Box is not used, this sheet should not be included in the request.

Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate:

in relation to international application PCT/US01/48150, Missiontrek Ltd. Co. is entitled to apply for and be granted a patent by virtue of the following:

- (i) Aaron Pearce of 4/2 Hallam Street, Bendigo, VIC 3550, Australia;
John Douglass, 35 Greenwood Drive, Bendigo VIC 3550, Australia;
John Moetteli, now of rue de Contamines 29, CP 486, CH-1211 Geneva 12, Switzerland
are inventors of subject matter for which protection is sought by way of this international application;
- (ii) Science Traveller International Pty. Ltd. is entitled to apply as employer of the inventors, Aaron Pearce and John Douglass;
- (iii) an assignment from John Moetteli to Missiontrek Ltd. Co. dated May 15, 2000; and
- (iv) consent from Science Traveller International, Aaron Pearce, John Douglass and John Moetteli in favor of Missiontrek Ltd. Co. to apply for and be granted a patent as memorialized in an agreement signed by Science Traveller International, Aaron Pearce, John Douglass and John Moetteli dated 8 May 2001.

☐ This declaration is continued on the following sheet, "Continuation of Box No. VIII (ii)".

Box No. VIII (iii) DECLARATION: ENTITLEMENT TO CLAIM PRIORITY

The declaration must conform to the standardized wording provided for in Section 213; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (iii). If this Box is not used, this sheet should not be included in the request.

Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application specified below, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii)):

Missiontrek Ltd. Co. and Science Traveller International Pty. Ltd. are entitled to claim priority to the US provisional application no. 60/256,541 filed December 18, 2000 by virtue of the fact that the inventors are the employees or assignors in interest of the applicants and by virtue of an agreement between the above-mentioned companies dated 8th May, 2001.

☐ This declaration is continued on the following sheet, "Continuation of Box No. VIII (iii)".

Sheet No. 7

Box No. VIII (iv) DECLARATION: INVENTORSHIP (only for the purposes of the designation of the United States of America)
The declaration must conform to the following standardized wording provided for in Section 21.4; see Notes to Boxes Nos. VII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (iv). If this Box is not used, this sheet should not be included in the request.

**Declaration of Inventorship (Rules 4.17(iv) and 51bis.1(a)(iv))
 for the purposes of the designation of the United States of America:**

I hereby declare that I believe I am the original, first and sole (if only one inventor is listed below) or joint (if more than one inventor is listed below) inventor of the subject matter which is claimed and for which a patent is sought.

This declaration is directed to the international application of which it forms a part (if filing declaration with application).

This declaration is directed to international application No. PCT/..... (if furnishing declaration pursuant to Rule 26ter).

I hereby declare that my residence, mailing address, and citizenship are as stated next to my name.

I hereby state that I have reviewed and understand the contents of the above-identified international application, including the claims of said application. I have identified in the request of said application, in compliance with PCT Rule 4.10, any claim to foreign priority, and I have identified below, under the heading "Prior Applications," by application number, country or Member of the World Trade Organization, day, month and year of filing, any application for a patent or inventor's certificate filed in a country other than the United States of America, including any PCT international application designating at least one country other than the United States of America, having a filing date before that of the application on which foreign priority is claimed.

Prior Applications:

I hereby acknowledge the duty to disclose information that is known by me to be material to patentability as defined by 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the PCT international filing date of the continuation-in-part application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name: Aaron Pearce

Residence: Bendigo, Australia

(city and either US state, if applicable, or country)

Mailing Address: 4/2 Hallam Street

Bendigo, VIC 3550

Citizenship: Australian

Inventor's Signature: [Signature]

(if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)

Date: 6 Dec. 2001

(of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)

Name: John Douglass

Residence: Bendigo, Australia

(city and either US state, if applicable, or country)

Mailing Address: 35 Greenwood Drive

Bendigo, VIC 3550

Citizenship: Australian

Inventor's Signature: [Signature]

(if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)

Date: 05 DEC 2001

(of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)

☒ This declaration is continued on the following sheet, "Continuation of Box No. VIII (iv)".

PCT/RO/101/48150

Continuation of Box No. VIII (i) to (v) DECLARATION

If the space is insufficient in any of Boxes Nos. VIII (i) to (v) to furnish all the information, including in the case where more than two inventors are to be named in Box No. VIII (iv), in such case, write "Continuation of Box No. VIII ..." (indicate the item number of the Box) and furnish the information in the same manner as required for the purposes of the Box in which the space was insufficient. If additional space is needed in respect of two or more declarations, a separate continuation box must be used for each such declaration. If this Box is not used, this sheet should not be included in the request.

Continuation of Box No. VIII(iv)

Name: John Moetteli

residence: Geneva, Switzerland

mailing address:

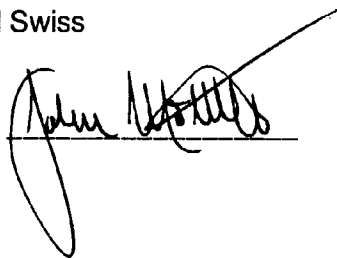
Case Postale 486

rue de Contamines 29

CH-1211 Geneva 12

Citizenship: US and Swiss

Inventor's signature:



Date: December 1, 2001